



Professional Profile

CHRISTOPHER BROWN, EIT, CDT
ASSOCIATE ENGINEERING CONSULTANT
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Christopher Brown is an Associate Engineering Consultant at Building Technology Consultants, Inc.

REGISTRATIONS

- Enrolled Professional Engineer Intern (**EIT**)
- Construction Document Technologist (**CDT**)



PROFESSIONAL EXPERIENCE

Prior to joining Building Technology Consultants, Inc. as a full-time employee in June 2024, Christopher was an Engineering Consultant Intern at Building Technology Consultants, Inc. from May 2023 to May 2024.

His professional experience includes:

- Investigation of deterioration, **water leakage** issues, and construction deficiencies in **building enclosures**;
- Evaluation of **air leakage** and **moisture transport** mechanisms in building enclosures and building demising walls;
- Preparation of **design documents**;
- Performing **City of Chicago Ongoing Facade Examinations and architectural and structural iron inspections**;
- Construction **contract administration**;
- Destructive and Nondestructive **testing**; and
- Assisting in **structural design** and **analysis for building components**.

EDUCATION

Christopher earned his **Bachelor of Science** degree in Civil Engineering from **University of Illinois, Chicago** at Chicago, Illinois, in 2024. He earned a **Bachelor of Science** degree in Economics from **Santa Clara University** at Santa Clara, California, in 2021.

PROFESSIONAL ACTIVITIES

- Member of American Society of Civil Engineers (**ASCE**)
- Member of American Society of Air Barrier Association of America (**ABAA**)

REPRESENTATIVE PROJECTS

St. Ben's Lofts Condominium – Chicago, Illinois

Responsible for **construction phase services** for a **facade repair** project at a 4-story masonry condominium building to address water leakage issues on floors 3 and 4. The building was originally built in 1907 as a silent movie film studio and converted to condominiums in 1998. **Water infiltration issues** had been reported since the conversion on the 3rd and 4th floors. BTC had previously performed an evaluation of the exterior walls. Water infiltration was attributed to cracked and debonded **brick mortar joints**, cracked and spalled **brick masonry** units, lack of flashing, and deteriorated **perimeter window and balcony** door sealant. Work included rebuilding masonry walls above the 4th floor windows, installation of through-wall flashing system, masonry mortar joint repointing, brick masonry unit replacement, and removal and resealing of window and balcony brace sealant.

400 West Huron Condominium Building – Chicago, Illinois

Assisted in **design phase services** and responsible for **construction phase services** for an exterior steel coating project at a 15-story residential building completed in 2017. Concrete balconies with steel railings are present along the east and west elevations and **steel beams** span the perimeter of the building on each floor. Deteriorated paint and **corrosion** has been reported on several balcony railings and spandrel beams. Work included cleaning, preparing, and recoating exterior steel and weld repairs.

Union Square Condominiums – Chicago, Illinois

Responsible for **construction phase services** associated with **waterproofing replacement** and **courtyard renovations**. The condominiums consist of two brick masonry buildings. Below the two buildings is a parking garage and an approximate 11,000 square feet courtyard located above the garage and between the two buildings. **Water infiltration issues** had been reported and deterioration was observed at the ramp to the south building. Work included removing and replacing existing **waterproofing system** at the courtyard, masonry and **through-wall flashing repairs**, concrete and limestone repairs, and courtyard renovations.

3750 North Lake Shore Drive – Chicago, Illinois

Responsible for **construction phase services** associated with **waterproofing replacement** for a **17-story building** located along Chicago's lakefront. Prior evaluation of **water leakage** along the floor on the 17th floor determined that the leakage occurred due to lack of proper waterproofing termination below the terrace. Work was performed on 2 terraces. It included removal and replacement of **waterproofing systems**, and installation of new overflow scuppers and drains.

Batavia Public Library – Batavia, Illinois

Responsible for developing an **updated capital asset study** for the library that included anticipated expenditures for the next 20 years. Performed a **visual review** to evaluate the current condition of major building elements and identified deficiencies that could result in future expenditures. Performed a **financial analysis**, and developed tables and charts to illustrate a timeline for major projects.

Skokie Public Library– Skokie, Illinois

Responsible for developing an **updated capital asset study** for the library that included anticipated expenditures for the next 20 years. Performed a **visual review** of the facade, site, interior, MEP, and fire protection for the building. User-friendly tables and charts were included in the report as a tool to clearly illustrate when large projects are anticipated.